

INSIGHTS™

Belt Conveyor Maintenance

Belt Cleaner Tensioning

TECHNICAL SOLUTIONS FOR BELT CONVEYOR PRODUCTIVITY

Proper Belt Cleaner Tensioning

Choosing the proper belt cleaner is important. Making sure it is installed correctly is essential to ensure that it is actually doing its job. One of the last things you'll do when you are installing or maintaining your cleaner is adjust the tension for appropriate blade-to-belt interaction. However, before you get to the install, you'll want to make sure you are choosing the right tensioner for your application.

Improper Tensioning

When tension is lacking on metal blades, it can lead to the following problems:

- Chattering of blades
- Reduced cleaner efficiency and product buildup
- Excessive carryback, which can cause mistracking of the belt
- Buildup on the surface of the belt, making the belt abrasive and decreasing blade life

All of these factors increase the need for maintenance and repairs, as well as added labour costs to clean up around the conveyor. Correctly choosing a tensioner that works for you is extremely important. Let's take a look at the options:

Option 1: Air

Best for isolated areas such as shuttles, this type of side assembly will maintain tension on its own and does not need to be checked as regularly as other options.

Advantages:

- The most low maintenance option available
- No need to record tension lengths or perform visual inspections – this tension option will automatically adjust to an optimum blade-to-belt tension



Low Maintenance



High Efficiency

Option 2: Bolt

A low-cost solution for experienced cleaner technicians; requires regular maintenance.

Advantages:

- The most cost-effective solution available
- As bolt tensions are completely manual, the user has full control – a perfect option for someone who has the ability to check the cleaner every few days
- Perfect for experienced cleaner technicians who are able to judge cleaner effectiveness based on a visual inspection



Easy Installation



Low Cost

Option 3: Spring

A simple solution. Easy to measure, maintains blade-to-belt contact for longer periods between services.

Advantages:

- By using Flexco reference guides, your crew will be able to take the guesswork out of setting correct tension levels
- Superior cleaning efficiency: using a spring allows flexibility in the tension, producing constant blade-to-belt tension. This leads to significant reductions in carryback and downtime, as well as an increase in cleaning efficiency
- Reduced labour: more efficient maintenance – no need to constantly guess whether someone has already tightened the tension or unnecessarily re-tensioning the spring. Simply measure and adjust as needed until your next scheduled maintenance check
- Ability to check tension quickly and safely using a ruler

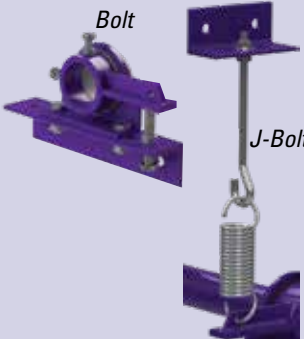





Easy Installation and Maintenance



High Efficiency

Primary Cleaner Tensioners

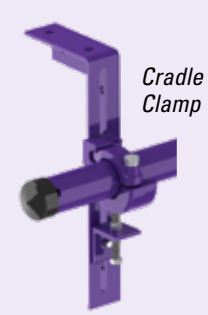


 <p>Bolt J-Bolt</p> <p>J-Bolt Tensioner allows user full control of blade-to-belt tension.</p>	 <p>LST EST PCST</p> <p>Primary Cleaner Spring Tensioners allow the blade tension to be visually inspected. Available for cleaner poles ranging from 48mm to 73mm.</p>	 <p>Twist</p> <p>Compact Torsion Twist Tensioner allows for measurable and verifiable tension.</p>	 <p>HDADTMK</p> <p>Air/Water Tensioner allows for easy to maintain tension.</p>
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Primary Cleaner Tensioners

Name	Bolt	J-Bolt	LST	EST	PCST	Twist	AWT
Tensioner Type	Bolt	Bolt	Spring	Spring	Spring	Torsion	Air, Water
Pole Size(s)	60mm, 73mm	60mm, 73mm	48mm	60mm	60mm, 73mm	60mm	60mm, 73mm
Stainless Option?	Yes	Yes	Yes	Yes	Yes	No	Yes
EZP-LS							
EZP1							
MMP							
H-Types							
MHCP							

Standard Tensioner Options
 Available on Request

Secondary Cleaner Tensioners

 <p>Cradle Clamp</p> <p>Versatile Cradle Clamp Tensioner can be mounted to push-up or pull-up the cleaner.</p>	 <p>SST YST MST UST CST</p> <p>Secondary Cleaner Spring Tensioners provide self-adjusting tensioning with easy retensioning adjustment. Available for 60mm and 73mm cleaner poles.</p>	 <p>J-Bolt</p> <p>J-Bolt Tensioner provides an economical option for secondary cleaner.</p>	 <p>SAT</p> <p>Air/Water Tensioner provides a low-profile, autonomous tension.</p>
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Secondary Cleaner Tensioners

Name	Cradle Clamp	YST & YST HD	MST	SST & SST	CST	UST	SAT	J-Bolt
Tensioner Type	Bolt	Spring	Spring	Spring	Spring	Spring	Air, Water	Bolt
Pole Size(s)	60mm, 73mm	60mm, 73mm	60mm, 73mm	73mm	73mm	60mm, 73mm	60mm, 73mm	60mm, 73mm
Stainless Option?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
P-Type								
R-Type								
Y-Type HD								
FMS								
MHS								
MDWS								
U-Type								
ESAC (cartridge)								

Standard Tensioner Options
 Available on Request